BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images, please do not report the images to the Image Problem Mailbox.

between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituant at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

(b) an aqueous surfactant.

2. (Amended) The nematicidal composition of claim 1 wherein R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a singly or multiply substituted or unsubstituted C1-C2 carbon chain, wherein the substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy.

3. (Amended) The nematicidal composition of claim 1 wherein R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituant at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituants are selected from the group consisting of hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

9. (Amended) The composition of claim 1 wherein R_1 is a C1-C2 substituted or unsubstituted carbon chain.

10. (Amended) The composition of claim 1 wherein R_2 is substituted only at one or both of 12th and 13th carbons counting from the carbonyl carbon.

A2 cont

11. (Amended) The composition of claim 10 wherein R_2 is substituted only at the 12th carbon counting from the carbonyl carbon.

14. (Amended) The composition of claim 10 wherein within R_2 the substituants are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

A3

15. (Amended) A nematicidal composition comprising:

(a) a fatty acid methyl ester selected from the group consisting of: ricinoleic acid methyl ester, crepenynic acid methyl ester, and vernolic acid methyl ester; and

(b) an aqueous surfactant.

16. (Amended) The composition of claim 1 or claim 15 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene 20 sorbitan monolaureate, polyoxyethylene 9 nonylphenyl ether.

17. (Amended) The composition of claim 15 wherein the composition further comprises:

(c) a permeation enhancer.

18. (Reiterated) The composition of claim 17 wherein the permeation enhancer is a cyclodextrin.

A4

19. (Amended) The composition of claim 15 where the composition further comprises:

(c) a co-solvent.

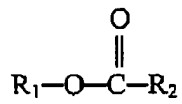
20. (Reiterated) The composition of claim 19 wherein the co-solvent is isopropanol.

A5

21. (Amended) The composition of claim 15 further comprising a nematicide selected from the group consisting of: avermectins, ivermectin, and milbemycin.

22. (Amended) A method for control of unwanted nematodes, the method comprising administering to mammals, plants, seeds or soil a nematicidal composition comprising:

(a) an effective amount of a compound having the formula



wherein:

R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituant at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

(b) an aqueous surfactant.

23. (Amended) The method of claim 22 wherein R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

24. (Amended) The method of claim 22 wherein R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting

A5 Cont'd

from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituant at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and an unsubstituted C1-C2 carbon chain.

29. (Amended) The method of claim 22 wherein R_1 is a C1-C2 substituted or unsubstituted carbon chain.

A6

30. (Amended) The method of claim 22 wherein R_2 is substituted only at one or both of 12th and 13th carbons.

31. (Amended) The method of claim 22 wherein R_2 is substituted only at the 12th carbon.

A7

34. (Amended) The method of claim 22 wherein within R_2 the substituants are selected from the group consisting of: hydroxy, epoxy, and a C1 alkyl.

35. (Reiterated) A method for control of unwanted nematodes, the method comprising administering to mammals, plants, seeds or soil a nematicidal composition comprising an effective amount of:

(a) a fatty acid methyl ester selected from the group consisting of: ricinoleic acid methyl ester, crepenynic acid methyl ester, and vernolic acid methyl ester; and

(b) an aqueous surfactant.

A8

36. (Amended) The method of claim 22 or claim 35 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene sorbitan 20 monolaureate, polyoxyethylene 9 nonylphenyl ether.

37. (Reiterated) The method of claim 22 or claim 35 wherein the composition further comprises:

(c) a permeation enhancer.

38. (Reiterated) The method of claim 37 wherein the permeation enhancer is a cyclodextrin.

39. (Reiterated) The method of claim 22 or 35 wherein the composition comprises:

(c) a co-solvent.

40. (Reiterated) The method of claim 39 wherein the co-solvent is isopropanol.

41. (Reiterated) The method of claim 22 or claim 35 further comprising administering a nematicide selected from the group consisting of: avermectins, ivermectin, and milbemycin.

42. (Reiterated) The method of claim 22 wherein the nematode infects plants and the nematicidal composition is applied to the soil or to plants.

43. (Reiterated) The method of claim 42 wherein the nematicidal composition is applied to soil before planting.

44. (Reiterated) The method according to claim 42 where the nematicidal composition is applied to soil after planting.

45. (Reiterated) The method of claim 42 wherein the nematicidal composition is applied to soil using a drip system.

46. (Reiterated) The method of claim 42 wherein the nematicidal composition is applied to soil using a drench system.

47. (Reiterated) The method of claim 42 wherein the nematicidal composition is applied to plant roots.

48. (Reiterated) The method of claim 22 wherein the nematicidal composition is applied to seeds.

49. (Reiterated) The method of claim 22 wherein the nematode infects a mammal.

50. (Reiterated) The method of claim 22 wherein the nematicidal composition is administered to non-human mammal.

51. (Reiterated) The method of claim 22 wherein the nematicidal composition is administered to a human.

52. (Reiterated) The method of claim 50 wherein the nematicidal composition is formulated as a drench to be administered to a non-human animal.

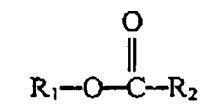
53. (Reiterated) The method of claim 49 wherein the nematicidal composition is formulated as an orally administered drug.

54. (Reiterated) The method of claim 49 wherein the nematicidal composition is formulated as an injectable drug.

55. (Amended) A nematicidal feed for a non-human mammal comprising:

(a) a feed;

(b) an effective amount of a nematicidal compound having the formula



wherein:

R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the

substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

and

R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons and either: (i) a triple bond between the 12th and 13th carbons or (ii) either a single or double bond between the 12th and 13th carbons and at least one substituant at one or both of the 12th and 13th carbons, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

(c) an aqueous surfactant.

56. (Reiterated) The nematicidal feed of claim 55 wherein the feed has been treated to reduce linoleic acid content, linolenic acid content or both.

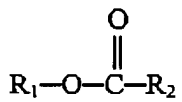
57. (Reiterated) The nematicidal feed of claim 56 wherein both the gamma linolenic acid content and the alpha linolenic acid content have been reduced.

58. (Reiterated) The nematicidal feed of claim 55 wherein the feed is selected from the group consisting of: soy, wheat, corn, sorghum, millet, alfalfa, clover, and rye.

Please add new claims 65-70 as follows.

--65. A nematicidal composition consisting essentially of:

(a) an effective amount of a compound having the formula



wherein:

R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane,

cyclopropene, epoxy, and a C1-C2 substituted or unsubstituted carbon chain, wherein the substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

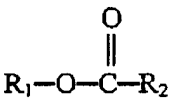
R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituant at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

(b) an aqueous surfactant; and

(c) a permeation enhancer.

66. A nematicidal composition consisting essentially of:

(a) an effective amount of a compound having the formula



wherein:

R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a C1-C2 substituted or unsubstituted carbon chain, wherein the substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituant at one or both of the 12th and 13th carbons counting from the carbonyl carbon,

wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

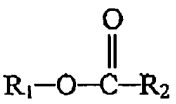
(b) an aqueous surfactant; and

(c) a co-solvent.

A10 cont'd

67. A nematicidal composition comprising:

(a) an effective amount of a compound having the formula



wherein:

R_1 = a C1-C5 substituted or unsubstituted carbon chain, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a C1-C2 substituted or unsubstituted carbon chain, wherein the substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy; and

R_2 = a C15-C19 substituted or unsubstituted carbon chain having a *cis* double bond between the 9th and 10th carbons counting from the carbonyl carbon and either: (i) a triple bond between the 12th and 13th carbons counting from the carbonyl carbon or (ii) either a single or double bond between the 12th and 13th carbons counting from the carbonyl carbon and at least one substituant at one or both of the 12th and 13th carbons counting from the carbonyl carbon, wherein the substituants are selected from the group consisting of: hydroxy, halogen, amino, cyano, cyclopropane, cyclopropene, epoxy, and a substituted or unsubstituted C1-C2 carbon chain, wherein the substituants on the C1-C2 carbon chain are selected from the group consisting of hydroxy, halogen, amino, cyano, and epoxy;

(b) an aqueous surfactant; and

(c) a nematicide selected from the group consisting of: avermectins, ivermectin, and milbemycin.

68. The composition of any of claims 65-67 wherein the aqueous surfactant is selected from the group consisting of: ethyl lactate, polyoxyethylene 20 sorbitan monolaureate, polyoxyethylene 9 nonylphenyl ether.

69. The composition of claim 65 wherein the permeation enhancer is a cyclodextrin.

70. The composition of claim 66 wherein the co-solvent is isopropanol.--